

What is Claimed:

1. A cable, comprising:

a first twisted pair of insulated conductors;

5 a second twisted pair of insulated conductors;

a filler separating the first twisted pair of insulated conductors from the second
twisted pair of insulated conductors; and

a multi-layer conductive barrier tape comprising a continuous conductive material
contained between two layers of a dielectric material, the conductive material of the
10 barrier tape extending to each lateral edge of the two layers of the dielectric material, the
barrier tape surrounding the first twisted pair of insulated conductors, the second twisted
pair of insulated conductors, and the filler.

2. The cable of claim 1, wherein the filler comprises a dielectric material.

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3. The cable of claim 1, wherein the filler has a helical twist at a first angle.

4. The cable of claim 3, wherein the barrier tape has a helical twist at a second angle.

20 5. The cable of claim 4, wherein the second angle is equal to the first angle.

6. The cable of claim 4, wherein the second angle varies along the length of the cable.

7. The cable of claim 4, wherein the second angle varies between the first angle and a
25 third angle, distinct from the first angle.

8. The cable of claim 4, wherein the second angle varies between a first value, less than the first angle, and a second value, greater than the first angle.

5 9. The cable of claim 3, wherein the first twisted pair of insulated conductors and the second twisted pair of insulated conductors have a helical twist around the filler at the first angle.

10. The cable of claim 1, wherein the filler comprises at least one arm.

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11. The cable of claim 10, wherein a seam of the barrier tape is positioned above a terminal portion of an arm of the filler.

12. The cable of claim 10, wherein the filler comprises four arms in a cross shape.

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13. The cable of claim 10, wherein each arm ends in a symmetrical terminal portion.

14. The cable of claim 10, wherein the terminal portion of each arm is wider than a middle portion of said arm.

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15. The cable of claim 10, wherein the terminal portion of each arm has a trapezoidal profile.

16. The cable of claim 10, wherein a pair of arms of the filler forms a channel; and

25 wherein the first twisted pair of insulated conductors is positioned within the channel.

17. The cable of claim 1, further comprising a jacket surrounding the conductive barrier tape.

5 18. A method of manufacture of a cable, comprising:

providing a first twisted pair of insulated conductors and a second twisted pair of insulated conductors;

positioning a filler between the first twisted pair of insulated conductors and the second twisted pair of insulated conductors; and

10 wrapping the first twisted pair of insulated conductors, second twisted pair of insulated conductors, and filler with a conductive barrier tape comprising a conductive material contained between two layers of a dielectric material, the conductive material of the barrier tape extending to each lateral edge of the two layers of the dielectric material.

15 19. The method of claim 18, further comprising:

helically twisting the filler at a first angle; and

helically twisting the conductive barrier tape at the first angle.

20. The method of claim 18, further comprising:

20 helically twisting the filler at a first angle; and

helically twisting the conductive barrier tape at an angle varying between the first angle and a second angle.